

S T E P
PRE-COLLEGE
PROGRAM



STEVENS
INSTITUTE OF TECHNOLOGY

STEVENS TECHNICAL ENRICHMENT PROGRAM

Since 1968, Stevens Institute of Technology has helped Blacks, Hispanics and other minority students gain access to higher education and careers in engineering, science and management through the efforts of Stevens Technical Enrichment Program (STEP).

STEP's programs are based on getting students off to an early start, and continuing throughout senior year with comprehensive support systems. Not only does STEP furnish academic support, it also provides a caring and supportive environment. The STEP staff encourages you to strive to your fullest potential, and to seek excellence, not mediocrity.



PRE-COLLEGE PROGRAM

The STEP Pre-College program is designed to help high school students develop skills vital to success in the fields of engineering and science. The program begins as early as the ninth grade, providing intense academic instruction, laboratory and enrichment activities to students who are preparing for admission to a technological college. In both the Academic Year Component and Summer Component, STEP provides you with access to information about technology-related careers, field trips, and career development seminars.

Summer Component

Participants in the Summer Component are between the ninth and 12th grade. You will live on campus for six weeks while pursuing a rigorous academic schedule in an atmosphere of encouragement and reward. Undergraduate Stevens students will be living in the same residence halls, and providing tutoring and counseling.

Classes are held between 8:30 a.m. and 3 p.m. Monday through Thursday, with mandatory tutoring sessions each evening from 7 to 9 p.m. Fridays are reserved for field trips to industrial sites, while cultural and recreational trips and special events are scheduled for the weekends.

Pre-College Academic Year Component

Summer participants continue their studies on Saturdays during the school year. Classroom instruction is scheduled from 9 a.m. to noon, and afternoons are devoted to laboratory activities and individualized tutoring. Field trips are also scheduled throughout the year. A Science Fair is held annually, at which STEP participants join local high school students in exhibiting projects they've developed.

Faculty and Tutors

STEP's 12 Pre-College faculty members are drawn from the regular and special faculty at Stevens, and from local high schools. In addition, undergraduate students, many of whom are former STEP participants, conduct the tutoring sessions. All tutors attend classes and lab sessions along with you, and are available to offer advice along with academic help. During the Summer Session, tutors live with participants in campus residence halls, supervising and counseling when necessary.

Curriculum

Both the summer and academic year sessions involve study in geometry, algebra, trigonometry, precalculus, biology, chemistry, physics and the humanities. Lab sessions include work with computers, engineering, physics, chemistry, reading, and photography.

Admission

STEP's enrollment is made up of 120 Black, Hispanic and other minority students from target high schools in the New York/New Jersey metropolitan area. Funding is provided through Federal, State and private sources. The program covers the cost of tuition, room, board, books and supplies, and provides a small weekly stipend for incidentals.

When you apply, you are evaluated on the following factors:

- completion of the ninth or tenth grade
- completion of one year of college-prep mathematics for each year of high school completed
- interest in pursuing a career in engineering, technology, science or mathematics
- clear aptitude for mathematical and technical problem solving
- positive motivation for academic success
- income and/or educational level of parents/guardians (in compliance with federally established guidelines).

If accepted into the STEP Pre-College program, you are expected to attend both the Summer and Academic Year Components until graduation from high school.

Counseling, Guidance, Career Planning

When you become part of STEP you are encouraged to call upon our concerned staff with any personal, academic, financial or emotional problem which you may encounter. A full-time counselor is available during both the Summer and Academic Year Components.

You will also be offered extensive counseling, career exploration, college selection and admission procedures and SAT coaching. Field trips to industry will give you contact with practicing professionals and there are also frequent talks focusing on career opportunities.

For more information about any STEP program, complete and mail the attached postage-paid card.

ADDITIONAL STEP ACTIVITIES

STEP's Junior High School Project is aimed at encouraging greater numbers of minority and disadvantaged students to enroll in Algebra I in the ninth grade and continue in college-preparatory mathematics and science courses throughout high school. Each week, a STEP faculty member visits a seventh and eighth grade class, at a selected junior high school, conducting hands-on activities in mathematics and science.

The Accelerated Mathematics Program is designed to help high school seniors strengthen mathematics skills, to help them gain entry into technological colleges, such as Stevens. Many students who have three years of college prep mathematics and pass a qualifying exam are eligible for the program. On Saturdays during the academic year, participants work at their own pace individually or in groups on mathematical word problems. They also participate in lectures, career days and recreational activities.

Bridge Summer Program is a six-week residential component following senior year of high school. It is an option to our Pre-College Program graduates. Students take three to five courses, improve their academic skills and are assisted with the transition from high school to college.

ABOUT STEVENS

Stevens Institute of Technology, a private independent college, was founded in 1870 as the first American institution of higher education to focus exclusively on engineering based on scientific principles. The college today offers undergraduate programs in engineering, computer science, science, and management and business administration, and 19 programs leading to the master's and doctoral degrees. Total enrollment of approximately 3,500 students includes 1,400 undergraduate men and women.

In 1982, Stevens became the first college in the country to integrate student personal computer use into the undergraduate curriculum. Today, all incoming students lease or purchase a desktop microcomputer—a sophisticated workstation specially suited to engineering, scientific, technical and management applications.

Stevens' commitment to research activities contributes strongly to the vitality of the college's education process. The faculty is comprised of some 140 men and women, 90 percent of whom hold doctoral degrees.

Overlooking midtown Manhattan from Castle Point in Hoboken, New Jersey, the 55-acre campus encompasses more than 30 buildings, including classroom, residence hall, departmental, athletic, administration and research facilities.

